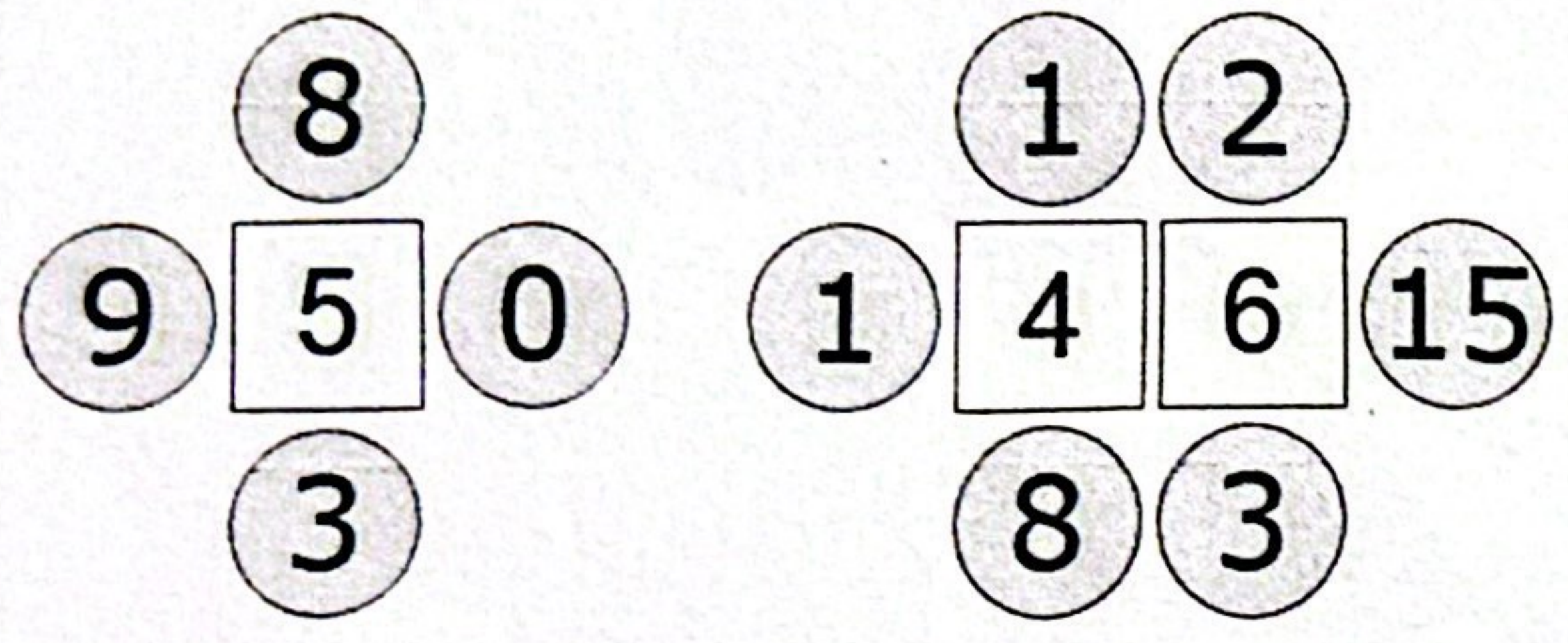
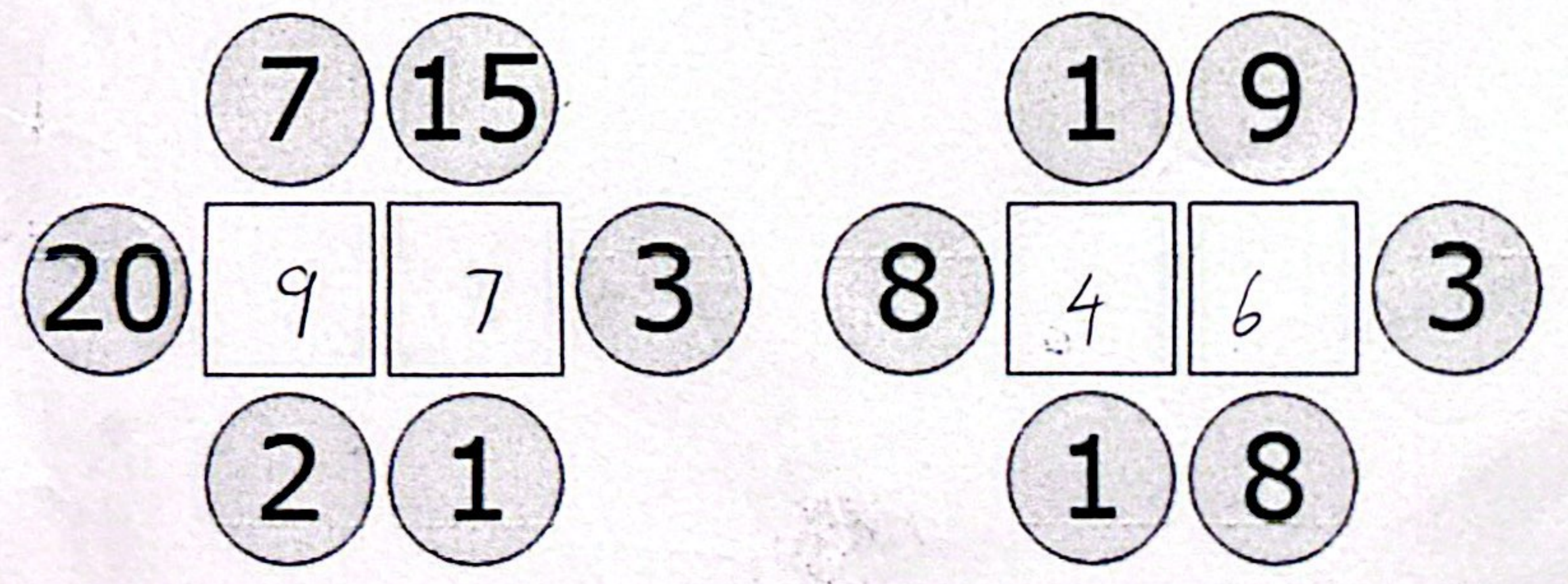
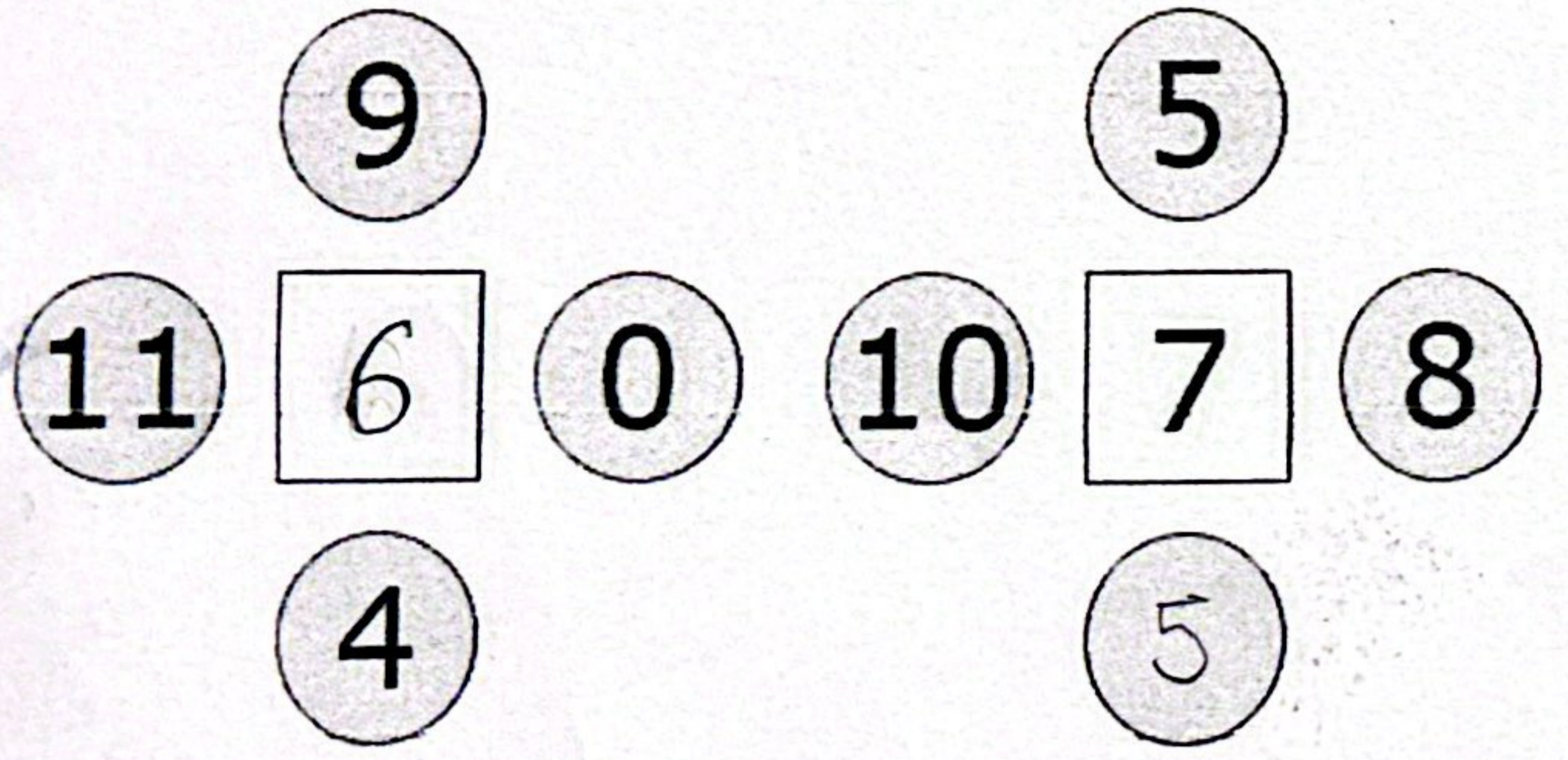


In these challenges, the number in each square is the average (mean) of the four numbers surrounding it.



Can you explain why the numbers 5, 4 and 6 belong in the squares in these two examples?

Your challenge is to find the missing number in each of the grids below.



Can you create a similar problem for someone else to solve (with whole number solutions)?

2. 8
 9 5 0 ← first we add 9, 8, 8.
 3 ← Next we get the number 20
 ← 20 ÷ 4 = 5 so the answer is 5

1. 12
 4 6 15 ← In 2, 15, 3 adds to 20
 8 3
 In 2, 15, 3, it can add up to 20. 20 is divisible by 4 but if we put 5 and 0 the other side 1, 1, 8 adds up to 10 and zero is too small. So we try 24. 20 + 4 = 24 and 6 × 4 = 24 so the answer is 6